

Material Safety Data Sheet (MSDS) Immunogold Nanoparticle Conjugates

Section 1 Product and Company Information

1.1	Product	EM Grade Conjugate (all sizes)	
	Catalogue Number(s)	Various, applic	cable to all.
1.2	Company	BBISolutions	
	Information	Golden Gate	
		Ty Glas Avenue	
		Llanishen	
		Cardiff CF14 5DX	
		Telephone:	+44 (0)29 2074 7232
		Facsimile:	+44 (0)29 2074 7242
1.3	Emergency Contact	Telephone	+44 (0)29 2074 7232
		Email:	info@bbisolutions.com

Section 2 Composition / Information on Ingredients

CAS Number	Chemical / Preparation Name	Percent	ELINCS/EINECS
None	Colloidal gold nanoparticles	0.001 - 0.01%	
26628-22-8	Sodium azide preservative	0.097%	

Section 3 Hazard Identification

	Overview	
Avoid contact and inhalation		

Potential Health Effects		
Eyes:	May cause eye irritation	
Skin:	May cause skin irritation. May be harmful if absorbed through the skin	
Ingestion:	May be harmful if swallowed	
Inhalation:	on: Material may be irritating to mucous membrane and upper respiratory tract.	
Chronic:	Chronic: Not known	

Section 4 First Aid Measures

Eyes:	Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by
	separating eyelids with fingers. Call a physician.
Skin:	Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing
	and shoes. Call a physician.
Ingestion:	If swallowed, wash out mouth with water provided the person is conscious. Call a physician.
Inhalation:	Remove to fresh air. If breathing becomes difficult, Call a physician.

Notes to Physician	
N/A	



Section 5 Fire Fighting Measures

General Information

Wear self-contained breathing apparatus and protective clothing. Prevent contact with skin and eyes. Emits toxic fumes under fire conditions/heated.

Extinguishing Media

Water spray. Carbon dioxide, dry chemical powder or appropriate foam.

Section 6 Accidental Release Measures

General Information

Spills / Leaks

Wear respirator, chemical resistant gloves, chemical safety goggles, and rubber boots. Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after pickup is complete.

Section 7 Handling and Storage

Handling

Avoid contact with skin and eyes.

Storage

Store between 2 – 8°C. Can be stored long term at -20°C to -25°C.

Section 8 Exposure Controls / Personal Protection

Exposure Limits				
Chemical Name	ORL-MUS LD50	ORL-WMN LDLO	ORL-MAN LDLO	SKN-RAT LD50
Colloidal Gold	N/A	N/A	N/A	N/A
Sodium Azide	27 mg kg ⁻¹	14 mg kg ⁻¹	29 mg kg ⁻¹	50 mg kg ⁻¹

Personal Protective Equipment		
Eyes: Wear chemical safety goggles.		
Skin:	Wear chemical resistant gloves.	
Clothing:	Clothing: Will stain clothing; wear disposable/washable laboratory garments. Rubber boots.	
Respirators: Wear appropriate NIOSH/MSHA approved respirator.		



Section 9 Physical and Chemical Properties

Physical State:	Liquid
Appearance:	Colourless/Pale Yellow or Red/Purple.
Odour:	None
pH:	Varies from pH5 to pH10.
Vapour Pressure:	N/A
Vapour Density:	N/A
Evaporation Rate:	As water
Viscosity:	As water
Boiling Point:	As water
Freezing / Melting Point:	As water
Auto-ignition Temperature:	N/A
Flash Point:	N/A
Decomposition Temperature:	N/A
NFPA Rating:	N/A
Explosion Limits: Upper:	N/A
Lower:	N/A
Solubility:	Aqueous solution
Specific Gravity / Density:	N/A
Molecular Formula:	N/A
Molecular Weight:	N/A

Section 10 Stability and Reactivity

Chemical Stability:	Stable
Conditions to Avoid:	Heat over 50C
Incompatibilities with other	Contact with salts will cause precipitation of colloid
Materials:	
Hazardous Decomposition	Not known
Products:	
Hazardous Polymerisation:	Will not occur

Section 11 Toxicological Information

RTECS Number:	MD5070000 (gold)
CAS Number:	7440-57-5
LD50 / LC50:	
Carcinogenicity:	
IARC:	
Epidemiology:	
Teratogenicity	
Reproductive Effects:	
Neurotoxicity:	
Mutagenicity:	
Other Studies:	



Section 12 Ecological Information	
Ecological Hazards:	No data available
Continu 10 Disposal Considerations	
Section 13 Disposal Considerations	
Waste Disposal – Material/packaging Contact a licensed waste disposal service to dispose of this material.	
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Section 14 Transport Information	
Shipping Name:	Colloidal Gold nanoparticle conjugate.
RID / ADR / DOT 49 CFR:	Colloidal Cold Harloparticle Conjugate.
ICAO / IATA:	
IMDG Code:	
UN Number:	
MFAG:	
EMS:	
Notes:	Ship at ambient temperature. Non-hazardous for air, sea or road freight.
Section 15 Regulatory Information	
European / International Regulations	
Hazard Symbols:	
Risk Phrases:	
Safety Phrases:	S36 and S37 (suitable protective clothing/ gloves)
,	US Federal Regulations
TSCA:	
SARA:	
OSHA:	
Section 16 Other Information	
MSDS Creation/Revision Date:	01 Nov 2013
Next Revision Due:	01 Nov 2015
Notes:	Customers should use this information only as a supplement to other
	information gathered by them, and should make independent judgment
	of suitability of this information to ensure proper use and protect the
	health and safety of employees. The information above is believed to be

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possibility of such damages.

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